

Energy Solutions Career Pathway

MISSOURI ECONOMIC RESEARCH & INFORMATION CENTER
MISSOURI DEPARTMENT OF HIGHER EDUCATION
& WORKFORCE DEVELOPMENT
MARCH 2026

What are Career Pathways?

Career Pathways are groups of occupations within a career field. Occupations within a pathway share common skills, knowledge, and interests. The pathways use industry-recognized credentials and are examples of how different levels of training or education can help provide opportunities for career advancement.

Missouri Numbers:



7,800 Employers



122,349 Workers



\$86,134 Average Wage

Why Have a Career in Energy Solutions?

The Energy Solutions industry provides long-term and low-impact solutions to the energy demands of Missouri. The Energy Solutions industry represents 4.9 percent of total private sector employment, employing 122,349 workers in 7,800 establishments in 2024. Employment in this industry has been steadily growing, increasing an average of 1.4 percent from 2019 to 2024. Missouri has high employment concentrations in Energy Solutions, particularly in *HVAC Commercial Refrigeration Equipment Manufacturing and Other Electrical Equipment and Component Manufacturing*. The average annual wage in this industry is \$86,134, much higher than the state average of \$64,754 for private industries. Many occupations common in this industry, such as engineers and skilled production workers, have high wages.

With new technology emerging, the Energy Solutions industry is constantly working to meet the energy needs of the present and future. There are many opportunities for a meaningful and rewarding career with good pay and advancement in Production and Engineering/Quality Control.

Know the Basics

The Energy Solutions industry deals heavily with engineering, research, and production, so knowledge of mathematics, science, and the ability to use critical and analytical thinking are important. Safety and quality control issues are also critical in this industry, along with knowledge of environmental laws and regulations. Durable, or soft, skills, such as interpersonal skills, professionalism, and dependability, are important in all industries and occupations, including Energy Solutions.

Skills needed for Success:

The Energy Solutions industry has industry-wide technical competencies that represent the knowledge and skills needed to be successful in this industry. Knowledge of nuclear and non nuclear energy generation, as well as distribution are among the key skills needed for success.

Who's Hiring in Missouri?

Burns & McDonald
Honeywell
Olsson
HNTB
Leidos



Engineering/ Quality Control

Production

Now

Short-Term On-the-Job Training

See Next and Later categories for job opportunities in Engineering and Quality Control

Helpers-Production Workers
Entry: \$35,910 Average: \$41,840

Certificates: Forklift Operation

Next

Certificate, Associate Degree, Apprenticeship, Moderate- to Long-Term On-the-Job Training

Architectural & Civil Drafters
Entry: \$52,160 Average: \$65,680

Mechanical Drafters
Entry: \$56,160 Average: \$71,040

Electrical Engineering Technicians
Entry: \$67,160 Average: \$86,870

Degrees: Engineering; Drafting and Design
Certificates: CAD Certification; Certified Quality Auditor

First-Line Supervisor of Production & Operating Workers
Entry: \$54,210 Average: \$72,460

Welders
Entry: \$43,170 Average: \$53,100

Power Plant Operators
Entry: \$61,430 Average: \$87,020

Certificates: Forklift Operation; Commercial Driver's License (CDL); Welding; Occupational Safety & Health Administration (OSHA)

Later

Bachelor's Degree or Advanced Degree

Civil Engineers
Entry: \$78,360 Average: \$97,050

Architectural & Engineering Managers
Entry: \$125,390 Average: \$155,640

Electrical Engineers
Entry: \$88,210 Average: \$114,670

Degrees: Engineering

Industrial Production Managers
Entry: \$82,340 Average: \$118,370

Degrees: Engineering; Business Administration & Management

Sources:

Lightcast™

Employment and Training Administration, Competency Model Clearinghouse
2024 Occupational Employment and Wage Statistics, U.S. Bureau of Labor Statistics
Quarterly Census of Employment and Wages, U.S. Bureau of Labor Statistics
Top employers data is based on 2025 online job ads



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